

GRINEVA, A.V.; NAZAROVA, I.N.; FILIPENKO, V.V.; POMTUN, A.I.

Electroconductivity method used in investigating complex  
formation in the systems  $\text{CdCl}_2 - \text{KCl} - \text{H}_2\text{O}$  and  $\text{CdCl}_2 - \text{KBr} - \text{H}_2\text{O}$ .  
Nauka. Mezhegod. Khim. fak. (M), un. no. 2/7-12 '61.

(MIRA 17.8)

RECEIVED - 10/10/11

Some data on the economy of postwar Poland are shown  
for the period 1945-1950. The data are from the  
Polish Statistical Yearbook, 1951.

1. Introduction. The economy of postwar Poland.

ILLEGIBLE

Spectral analysis in the

S/081/61/000/074/006/086  
B138/B102

stelescope and the results of the marking analysis of metals the metallic impurities were determined, which were contained in the blocks used for irradiating the preparations. The following labeled compounds were identified by absorption spectral analysis in the visual and UV ranges: para formaldehyde, Bengal rose, diiodotyrosine and diiodofluorescein. Control checks were also made in the production of labeled vitamin B<sub>12</sub> and a number of compounds with S<sup>35</sup>. [Abstracter's note: Complete translation]

Card 2/2

3/091/61/000/004/005/000  
B149/B100

AUTHORS: Grinev, V. S., Gromov, V. A., Korovina, I. A.

TITLE: Spectral analysis in the manufacture of radioactive preparations

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 61, abstract 24B414 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu atomn. energii. Tashkent, AN UzSSR, v. 2, 1960, 377 - 382)

TEXT: The application of semi-quantitative emission analysis to impurities is described, together with absorption spectral analysis in the visual and ultraviolet ranges, for the identification and evaluation of labeled compounds in the production of radioactive preparations. In the first case an alternating current arc is used (generator  $\text{Al}^{11}$  (DG-1)) and a quartz spectrograph with single-lens illumination  $\text{NCH-22}$  (ISP-22). The impurities in the preparation  $\text{I}^{131}$  (without carrier) were determined from the emission spectra, with a sensitivity of 0.0007%, and also rare-earth impurities in the oxides  $\text{Ho}_2\text{O}_3$ ,  $\text{Dy}_2\text{O}_3$  and  $\text{La}_2\text{O}_3$ . Using a type BC-1 (VG-1)

Card 1/2

|                                                                                                                                                                                   |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| • Publications of the Technical (Cont.)                                                                                                                                           | 507/5010 |
| • Lukin, V. F., V. A. Petrov, and I. A. Dorovina [Ministry of Health USSR]. On the Application of Spectral Analysis                                                               | 377      |
| • Lukin, V. F., V. A. Petrov, and T. G. Aliev [Ministry of Health USSR]. On the Spectral Analysis of the Decay of the Decay and Controlling the Decay of Radioactive Preparations | 380      |
| • Lukin, V. F. [Ministry of Health USSR]. Analysis of the Radiation of Radioactive Preparations                                                                                   | 389      |
| • Lukin, V. F., and V. A. Petrov [Ministry of Health USSR]. Methods for Measuring Beta-Active Substances by Means of Counters                                                     | 395      |
| • Lukin, V. F., V. I. Levin, and M. A. Tikhonova [Ministry of Health USSR]. Counting Am-241 Without a Carrier                                                                     | 402      |
| • Lukin, V. F., and N. I. Serdyukov [Ministry of Health USSR]. Preparing Preparations With Radioactive Isotopes for Radiotherapy                                                  | 410      |

April 18/20

Transactions of the Tashkent (Cont.)

SOV/5410

instruments used, such as automatic regulators, flow meters, level gauges, and high-sensitivity photo-relays, are described. No new facilities are mentioned. Reference: follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION  
IN CHEMISTRY AND GEOLGY

Isanov, Ya. N. [Institut yadernoy fiziki Uzbek - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan 7

Isanov, I. N., and V. A. Yemshchikovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Application of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes 9

Card 3/20

Transactions of the Tashkent (Cont.)

337/0410

Institute of Physics and Mathematics; Dr. M. Tashkurov, Rector of Biological Sciences, Ed.: R. I. Khaidov; Asst. Ed.: A. G. Tashkurova.

Abstracts are published in English for the following papers: 1. Papers published in English in other journals. 2. Papers published in Russian and Russian radiation are used for research in chemical, geological, and technological fields.

CONTENTS: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Committee on the Scientific Use of Atomic Energy. The individual articles fall into a wide range of problems in the field of nuclear physics, including: production and chemical analysis of isotopes, isotope investigation of the kinetics of chemical reactions by use of isotopes, application of spectral analysis for the determination of radioactive parameters, radioactive methods for determining the content of elements in the earth, and analysis of methods for obtaining pure substances. Certain

Card 2/20



GRINOV, V. S.

GRINOV, V. S.

GRINOV, V. S. (GRINOV, V. S.)

GRINOV, V. S. (GRINOV, V. S.)

GRINOV, V. S. (GRINOV, V. S.)

GRINOV, V. S. (GRINOV, V. S.)

GRINOV, V. S. (GRINOV, V. S.)

GRINOV, V. S.

Country : USSR  
Category: Soil Science. Tillage, Reclamation Erosion  
Abs Jour: RZhBiol., No 18, 1958, No 82140

J

in the 12-21 cm layer the greater amount of N was  
observed as a result of the deep plowing.

Card : 3/3

Country : USSR

J

Category: Soil Science. Tillage. Reclamation. Erosion

Abs Jour: RZhBiol., No 13, 1958, No 82140

by the fact that the plowing was performed a short time before seeding (in June) in 1953, when it was very dry. In the treatment of the clover fallow for the winter wheat the plowing could be replaced by disk ag, which provided an increased harvest of 4-4.4 centners per hectare, depending upon the conditions of the station. The data present determinations of the amount of roots of the winter wheat on land which had previously been seeded with clover (1954), and the structural composition of the soil under the winter wheat which had been grown over disked clover (1956). The total reserve of nitrate of N under the sugar beets in a 40 cm layer of soil was almost the same in both variants of the plowing;

Cord : 2/3

J-30

Country : USSR  
Category: Soil Science. Tillage. Reclamation. Erosion  
Abs Jour: RZhBiol., No 18, 1958, No 82140  
Author : Grinev, V.M.  
Inst : ~~\_\_\_\_\_~~  
Title : Study of Methods of Soil Treatment Presented by  
T. S. Mal'tsev  
Orig Pub: Zemledeliye, 1957, No 6, 29-32

Abstract: At the Mironov Selection Station (Ukrainian SSR) a comparison was made between the usual system of soil treatment and that suggested by T. S. Mal'tsev. Deep plowing of the soil for winter wheat was done to a depth of 40 cm in a fallow field in June. A decrease in the harvest of winter wheat was explained

Card : 1/3

GRANOVSKAYA, M.L.; GRINEV, V.S.; DUZHENKOVA, N.A.; KRUSHINSKAYA, N.P.;  
SAVICH, A.V.

Determination of yields of the radiochemical decomposition of  
tryptophan and guanine by means of mathematical analysis of the  
absorption spectra of solutions. Radiobiologiya 5 no.5:633-  
637 '65. (MIRA 18:11)

MOSKALEV, Yu.I.; OBVINTSEV, G.V.; GRINEV, V.S. (Moskva)

Kinetics of the excretion of Nb<sup>95</sup> from the organism; experimental  
study. Med. rad. 10 no.1:28-29 Ja '65. (MIRA 18:7)

GRINEV, V.S.; RAU, O.I.; SVISHCHEV, G.M.

Automatic treatment of the absorption spectra of multicomponent  
additive mixtures. Opt.i spektr. 11 no.4:486-491 0 161.  
(MIRA 14:10)

(Automation) (Absorption spectra)

L 10100-66

ACC NR: AT6029634

processes (A, B, and N) at different dose rates. The authors regard regeneration during continuous irradiation as negligible (any normalization of indices being compensatory and temporary), and attribute the differences in the three parts of the curve to the predominance of different mechanisms of injury at different dose rates. When death is rapid, the CNS suffers heaviest damage ("brain death"); when death is slower, the stress of CNS compensation leads to severe damage to internal organs ("somatic death"). Prolonged demands on compensatory and protective mechanisms due to continuous exposure to an adverse factor may disrupt these mechanisms. It was therefore necessary to obtain the parameters A, B, and N independently for the three parts of the curve. Analysis of the data showed that: 1) The lowest values of  $C(t^*) = 0.05$  (viability at time of death) occurred at dose rates from 0.53 to 860 r/sec; the greatest value of  $C(t^*) = 0.3$  occurred at dose rates of 0.01 to 0.14 r/sec. 2) The slowest rate of injury (i.e., least value of A) occurred at dose rates of 0.01 to 0.14 r/sec. 3) The rate of compensatory-reparative processes (parameter B) is constant at dose rates from 0.01 to 860 r/sec and increases at lower dose rates ( $0.01 \times 10^{-2}$  to  $0.05 \times 10^{-2}$  r/sec). 4) Irreversible changes (parameter N) develop at approximately the same rate for all dose rates studied. To summarize, computer analysis of literature data on the survival time of mice continuously irradiated with dose rates from  $1.16 \times 10^{-4}$  to  $8.6 \times 10^2$  r/sec was used to establish the dependence of mean life expectancy on dose power and as a basis for a modified mathematical model of death due to continuous irradiation at a constant dose. Orig. art. has: 3 figures, 6 formulas, and 2 tables. [DP]

LS SUB CODE: 06/ SUBM DATE: 23Apr66/ ORIG REF: 030/ OTH REF: 022/ ATD PRESS: 5073  
Cord 3/3



L 44160-66

ACC NR: AT6029634

where P is constant dose power and  $t_0$  is the average life of a nonirradiated animal. Construction of a detailed mathematical model of the processes operating during continuous irradiation was attempted. Death occurs when the viability index C of the organism falls below some critical value. An equation was derived to describe changes in C during continuous irradiation at dose rate P:

$$\frac{dC}{dt} = -APC + B(1-C) - NPt,$$

where  $C(0)$ , the viability of a nonirradiated organism, is taken as 1, and t is lifetime under conditions of continuous irradiation, A is the rate of decline of viability, B the rate of compensatory and reparative processes, and N the rate of development of irreversible changes, proportional to the cumulative dose (pt). Solved for C(t), this yields:

$$C(t) = \left(1 - \frac{B}{AP+B} - \frac{NP}{A^2(AP+B)^2}\right) (-1 + e^{-(AP+B)t}) - \frac{NPt}{AP+B} + 1.$$

Substitution of  $t^*$  gives an equation relating P and  $t^*$  if A, B, N, and  $C(t^*)$  are treated as parameters. A universal model of the dependence of lifespan during continuous irradiation on dose power for a wide range of dose rates cannot be devised, since it is not true (as Sacher assumed) that the three parts of his curve differ only because of variations in the rates of injurious and regenerative

Card 2/3

L 44160-66 EMT(m) GD  
ACC NR: AT6029634

SOURCE CODE: UR/0000/66/000/000/0255/0265

AUTHOR: Koznova, L. B.; Grinev, V. S.

ORG: none

TITLE: Dependence of time-to-death of mice on dose rate under conditions of continuous irradiation

SOURCE: Voprosy obshchey radiobiologii (Problems of general radiobiology). Moscow, Atomizdat, 1966, 255-265

TOPIC TAGS: ionizing radiation biologic effect, radiation biologic effect, relative biologic efficiency, induced radiation effect, radiation dose rate, mouse, gamma radiation, mathematic model, biologic model, biologic process model

ABSTRACT: Dependence of time-to-death on dose rate was studied for mice continuously exposed to gamma rays until dead for a wide range of dose rates (from  $1.6 \times 10^{-2}$  to  $8.6 \times 10^2$  r/sec) by computer (Ural-2) analysis of data in the literature. Using G. A. Sacher's concept of unit radiation injury  $\Phi(1)$  at a dose power of unity over the time interval  $\tau$  to  $\tau + \Delta\tau$ , and regarding the aging process as a linear function of time, the authors derive his "cumulative lethality"  $C_L$  for the lifespan  $t^*$  of an animal following commencement of irradiation as

$$C_L(t^*) = \frac{1}{P} \left( 1 - \frac{t^*}{t_0} \right).$$

Card 1/3

GRINEV, S.M.

Use of screw clamps for double clamping wires on pin insulators.  
Energetik 11 no.1:35 Ja '63. (MIRA 16:1)  
(Electric lines--Overhead)  
(Electric lines--Poles and towers)

GRINEV, S.M.

Checking the absence of voltage on electric power transmission  
lines by a method which involves throwing-on of a grounding line.  
Energetik 9 no.10:34-35 0 '61. (MIRA 14:10)  
(Electric lines--Maintenance and repair)

GRINEV, S.M.

Problems concerning the operation and repair of 35 dv. electric  
power transmission lines. Energetik 9 no.10:34 0 '61. (MIRA 14:10)

(Electric lines--Maintenance and repair)

GRINEV, S.M.

Use of guy strands on 220 to 380 volt overhead power transmission  
lines. Energetik 8 no.9:38 S '60. (MIRA 14:9)  
(Electric lines--Overhead)  
(Electric lines--Poles)

GRINEV, S.M.

Minimum size of aluminum transmission lines. Energetik 8 no.8:38  
Ag '60. (MIRA 13:10)

(Electric lines--Overhead)

SOV/91-59-10-24/23

Correspondence with Readers

rotors work? Answer: A motor with two rotors is applied to obtain a rotation speed of over 3000 r.p.m. Depending on the number of poles, rotation speed of one of rotors may attain 6000 r.p.m. The power developed by the motor depends on the power of individually considered machines, and on direction of their fields rotation; it may be equal to the sum or to the difference of the individual motor power.

Card 2/2



8(6)

AUTHORS: Sheynin, G.A., Grinev, S.M., and Lindorf, L.S. SOV/91-59-10-24/29

TITLE: Correspondence with Readers

PERIODICAL: Energetik, 1959, Nr. 10, pp 36-37 (USSR)

ABSTRACT. I. Alkalinity of Boiler Feed Water. Question by A.I. Lekhtsiyer, Ishim, Tyumenskaya Oblast: We purify boiler feed water by sodium-cation method. Still, the alkalinity is too high. What is the permissible limit of alkalinity? Answer: The method mentioned does not decrease the alkalinity. To diminish it, potassium nitrate ( $KNO_3$ ) or sodium nitrate ( $NaNO_3$ ) should be used. II. Application of Insulated Cable for Lead-Ins. Question by Shkrobko Chernigov: Is it permissible to use in town streets insulated cables PR 4mm<sup>2</sup> or APR 10mm<sup>2</sup> for lead-ins? Answer: Not allowed, because the insulation conceals the possible damages of the metal part of the cable that bears the load. III. Asynchronous Electric Motor with Two Rotors. Question by P.E. Battakov, Leninogorsk: How does an asynchronous electric motor with two concentric

Card 1/2

AUTHOR: Grinev, S. M. SOV/91-59-2-51/33

TITLE: The Impregnation of Wooden Supports with Zinc Chloride  
(Propitka derevyannykh oper khloristym tsinkom)

PERIODICAL: Energetik, 1959, Nr 2, p 40 (USSR)

ABSTRACT: Replying to a reader's question, the author confirms the possibility of impregnating fir and pine wood with zinc chloride, which is widely used in the Latvenergo (Latvian Power Administration). He points out the necessity to store such impregnated wood for a while under cover, and have it coated with a waterproof lacquer. In closing, the inquirer is referred to a special publication on impregnating issued by ORGRES MES. There is one Soviet reference.

Card 1/1

GRINEV, S.M.

Calculation of the minimum allowable diameter of wooden poles for  
transmission lines. Energetik o no. 1:40 Ja '58. (MIRA 11:8)  
(Electric lines--Poles)

28.11.53-58 N '57.  
GOLUBTSOV, R.A., inzh.; GRINEV, S.M., inzh.; GROSHEV, N.I., inzh.

Forty years development of electric transmission lines. Elek.sta.  
28 no.11:53-58 N '57. (MIRA 10:11)  
(Electric power distribution)

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(S) (REV. 5-71)

(S) (REV. 5-71)

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Double bracket. 2 wires to insulators. and not to 17th

31 1/2.

(100, 100)

(Electric lines)

GRINEV, S. M. (Eng.)

"Safety Factors for Conductor Strength During Repairs," Operating Experience of the Mosenergo High-voltage Networks, Collection of Articles, Moscow, Gosenergoizdat, 1957, 79 p.

Abstr.; The author gives data based on experience and on official recommendations.

GRINEV, S. [Hryn'ov, S.]

Glorious deeds of a brigade of communist labor. Sil'.bud. 11  
no.11:8-9 N '61. (MIRA 15:3)  
(Nedrigaylov District--Farm buildings)

POZHAR, Z.A., kand.sel'skokhozyaystvennykh nauk; GRINEV, P.S.

Centralized disinfection of beet seeds. Zashch. rast. ot vred. i  
bol. 3 no.1:36-37 Ja-F '58. (MIRA 11:3)

1. Upravlyayushchiy Pivnenkovskoy semennoy bazoy (for Grinev).  
(Sugar beets) (Seeds-Disinfection)



GRINEV, P.D.

Hydrolysis of ethyl silicates and its role in industry. Lit.  
proizov. no. 8:8-9 Ag '60. (MIRA 14:2)  
(Ethyl silicate) (Hydrolysis)

GRINEV, P.

Extend the practice of temporary outdoor grain storage. Muk.-slev.  
prom. 22 no.12:7-8 D '56. (MLRA 10:2)

1. Stalinskoye oblastnoye upravleniye Gosudarstvennoy inspektsii  
po kachestvu sel'skokhozyaystvennykh produktov i syr'ya.  
(Grain--Storage)

GRINEV, O.K.

18  
Vacuum chamber for metalizing sheets. O.K. 100,000  
M. Z. Kopy and N. A. Kozlov. U.S.S.R. 100,000  
July 25, 1977. Structural and operational details are given.  
M.H.

4  
422  
100

GRINEV, N.V., inzh.

Emergency brakes for escalators. Bezop.truda v prom. 3 no.3:23  
Mr '59. (MIRA 12:4)

(Escalators---Safety measures)

GRINEV, M. V. (Leningrad, Zagorodnyy pr., d. 45, kv. 29); KULIK, L. N.

Role of the muscle flap in the plastic repair of the bone cavities  
in chronic osteomyelitis. Vest. khir. no.4:50-55 '62.  
(MIRA 15:4)

1. Iz 2-y gospi'tal'noy khirurgicheskoy kliniki (nach. - prof. Ye.  
V. Smirnov) Voenno-meditsinskoy ordena Lenina akademii im.  
S. M. Kirova.

(OSTEOMYELITIS) (MUSCLES---TRANSPLANTATION)

GRINEV, M. M., kand. med. nauk

Bronchoscopy under anesthesia combined with muscle relaxants and  
oxygen insufflation. Vest. otorin. no. 4:40-47 '61. (MIRA 15:2)

1. Iz kliniki gosptal'noy khirurgii No. 2 (zav. - prof. D. P.  
Chukhriyenko) Dnepropetrovskogo meditsinskogo instituta.

(BRONCHOSCOPY) (MUSCLE RELAXANTS) (ANESTHESIA)

GRINEV, M.M.; GLUBOKIKH, V.V.

Experience in the use of surface anesthesia by the intratracheal method in combination with muscle relaxants in gynecological surgery. Akush.i gin. 36 no.4:61-66 JI-Ag '60.

(MIRA 13:12)

(GENITOURINARY ORGANS—SURGERY) (INTRATRACHEAL ANESTHESIA)  
(MUSCLE RELAXANTS)

CHUKHRIYENKO, D.P.; GRINEV, M.M.

Some data on the action of muscle relaxants (ditilin, diplacin).  
Khirurgiya 35 no.9:97-102 '59. (MIRA 13:12)  
(MUSCLE RELAXANTS)



GRININ, P. I., Cand Med Sci -- (diss) "Muscular relaxants in <sup>anesthetics</sup> ~~anesthetics~~  
day methods of anesthesia. (Clinical and experimental study)."  
Dnepropetrovsk, 1959, 10 pp (Min of Health USSR. Dnepropetrovsk  
State Med Inst) 200 copies (KL, 30-59, 116)

GRINEV, M.M.; KUPRIYANOV, P.A., professor, nachal'nik.

Bronchomediaastinal fistula. Vest.khir. 73 no. 1:42-45 My-Je '53.  
(MLRA 6:6)

1. Vtoraya fakul'tetskaya khirurgicheskaya klinika Voenno-meditsinskoj  
akademii imeni S.M.Kirova. (Fistula)

GRINEV, M.

GRINEV, M., inzh.

Using reeds for construction on Altai state farms. Gor.1 sel.  
stroj. no.8/9:21-22 Ag-S '57. (MIRA 10:12)  
(Altai Territory--State farms--Building) (Reed)

BURKOVSKIY, Yu.A.; GRINEV, K.M., nauchnyy red.; NIKOLAYEVA, N.M., red.  
izd-va; PRUSAKOVA, T.A., tekhn.red.; BOROVNEV, N.K., tekhn.red.

[Dry process of manufacturing portland-cement clinker] Sukhoi  
sposob proizvodstva portland-tsementnogo klinkera. Moskva, Gos.  
izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1958.  
116 p. (MIRA 12:4)

(Portland cement)

GRINEV, K.M.; KRASHENINNIKOV, M.N.; KROTKOV, A.P.; YAMPOL'SKIY, I.,  
nauchnyy redaktor; KONVISSEB, L., redaktor; GRASHDANKINA, V. te-  
khnicheskiy redaktor

[Pneumatic conveyers in cement industries] Pnevmaticheskiy trans-  
port v tsementnoi promyshlennosti. Moskva, Gos. izd-vo lit-ry po  
stroit. materialam, 1951. 132 p. [Microfilm] (MIRA 1954)  
(Conveying machinery) (Cement industries)

GREEN, R. W.

Galway, R. W. - "Predictable and unpredictable effects of the 1967-68 El Niño on  
coral-reef growth at Johnston Island, Line Is., Pacific", *Science*, 1969, 165, 100-  
101.

as: 4-50", 16 June 53, (Indiana Journal of Fish Biology, 17, 1, 1953).

GRINEV, G. Ya.; SERGUCHIK, S. N.

Stand for cutting water insulation material into strips. Rats. 1  
izobr. predl. v stroi. no. 92:23-24 '54. (MLRA 8:6)  
(Water pipes)

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Defective and received with no other information. The  
mobile radiotelephone states, "last activity 10:00, 10:00-60" P. 10/5.  
(10:00-60)



GRINEV, G.A.

Methods for organizing automatic radio links using  
microwave radio and automatic loops of exchange systems with frequency  
division of channels. Elektrosвяз' 8/84, 1984, 10, 11.

(MPS 1 10)

GRINEV, G.A.

Analysis of the operation of the electrical circuit of  
selective call receiver using difference relays in a  
mobile radiotelephone system. *Elektrorvaz'* 18 no. 4:  
60-64 My 1964 (MIRA 1/18)

ACCESSION NR: AP4042504

subscriber, each group is handled as in the preceding case; (3) Radio exchange where all free channels can be used for establishing the connection; in this exchange, any free radiotelephone channel is used for ringing and then, after the called station has answered, becomes the talking channel. The above systems were experimentally verified on a laboratory hookup which is briefly described in the article. Orig. art. has: 6 figures and 15 formulas.

ASSOCIATION: none

SUBMITTED: 17Mar64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Card 2/2

ACCESSION NUMBER: 42504

S/0106/64/000/007/0060/0068

AUTHOR: GALT, C. A.

TITLE: Organization of automatic radiotelephone communication in  
automatic exchanges using frequency division of channels

Journal: Radiotekhnika, no. 7, 1964, 60-68

TOPIC: Communication, radio automatic exchange, radiotelephone,  
radiotelephone

ABSTRACT: Three methods of constructing a frequency-division microwave  
radiotelephone exchange with equally accessible trunks are considered: (1) Radio  
exchange with one fixed active radiotelephone channel in which any free  
channel is used for establishing the connection, ringing, and subsequently for  
talking. (2) Radio exchange with two nonfixed active radiotelephone channels in  
which all calls are divided into two groups: subscriber-to-office and office-to-

Card 1/2

GRINEV, F.

The beginning of a great work. Sov.profsoivzy 5 no.8:47-50  
Ag '57. (MLRA 10:8)

1.Predsedatel' Dnepropetrovskogo oblastnogo soveta profsoyuzov.  
(Dnepropetrovsk Province--Trade unions)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900040-6

GRINEV, E.I.; PARENCHIK, R.I.

Coefficient of the roughness of drain pipes. *Vop. gidr.*  
no. 12:49-60 '63. (MIRA 17:5)

GRINEV, E.I.

Use of closed horizontal drainage in virgin lands of the Golodnaya  
Steppe. Vop. gidr. no.3:157-169 '61. (MIRA 15:4)  
(Golodnaya Steppe--Drainage)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900040-6

GRINEV, D.

Fertilizer concentrates. Nauka i zhizn' 20 no.4:31-32 Ap '53. (MLRA 6:5)  
(Fertilizers and manures)



1. GRINEV, D.
2. USSR (600)
4. Lime
7. Liming acid soils Nauka i zhizn' No. 12 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Incl.

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| A B C D E F G H I J K L M N O P Q R S T U V W X Y Z                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  | PROCESSES AND PROPERTIES INDEX                                       |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>BC</p> <p>Influence of various sources of carbon on the nitrogen metabolism of <i>B. perfringens</i>. D. GRINEV, D. GORPUNKEL, E. CHAPIRO, and J. GERVITSCH (Bull. Inst. Metchnikoff, 1930, <b>1</b>, 65-68). Carbohydrates, alcohols, and salts of org. acids exercise different effects on the N metabolism of <i>B. perfringens</i>. W. O. K.</p> |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>ASH-514 METALLURGICAL LITERATURE CLASSIFICATION</p> <p>CLASSIFICATION</p> <p>CLASSIFICATION</p>                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |  |  |  |

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1ST AND 2ND ORDERS             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROCESSES AND PROPERTIES INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | PROCESSES AND PROPERTIES INDEX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A-4                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>(A) Nitrogen metabolism of <i>B. tetanus</i>.<br/>           (B) Comparisons of strains of different toxicity.<br/>           D. GRINEV, D. GORFUNKEL, E. CHAPIRO, and J. GURVITSCH (Bull. Inst. Metchnikoff, 1936, 1, 47-48, 49-50).—(A) When <i>B. tetanus</i> (1) is grown on peptone media, the changes in various N fractions depend on the type of peptone employed.<br/>           (B) The N metabolism of various strains of (1) is the more intense the greater is the activity of the toxins which they produce.<br/>           W. O. K.</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

BERDNIKOV, Viktor Nikolayevich[Berdnikov, V.M.], kand.med.nauk;  
GRINEV, Aleksandr Yevgen'yevich[Hrin'ov, O.IE.], lekar';  
KARYI, V.G.[Karyi, V.H., translator]; CHERNISHOV, V.P.,  
red.; BYKOV, N.M., tekhn. red.

[The health resort of Feodosiya]Kurort Feodosiia. Kyiv,  
Derzh. vyd-vo med. lit-ry URSR, 1962. 98 p. (MIRA 16:3)  
(FEODOSIYA--SEASIDE RESORTS)

~~GRINEV, A. Ye.~~, podpolkovnik meditsinskoy sluzhby

Research and practice conference in a sanatorium. Voen.-med.  
zhur. no.12:80-81 D '61. (MIRA 15:7)

(FEODOSIYA--THERAPEUTICS, PHYSIOLOGICAL)

BERDNIKOV, V.N.; GRINEV, A.Ye.

Feodosiya is a health resort for treating gastrointestinal  
diseases. Vop. kur., fizioter. i lech. fiz. kul't. 25  
no. 6:566-568 N-D '60. (MIRA 14:2)  
(FEDODSIYA---HEALTH RESORTS, WATERING PLACES, ETC.)  
(DIGESTIVE ORGANS---DISEASES)

BERDNIKOV, V.N., GRINEV, A.Ye.

Conference on theory and practice in Feodosiya. Vop.kur.fizioter.  
i lech. fiz. kul't. 23 no.6:567-568 N-D '58 (MIRA 11:12)  
(ALIMENTARY CANAL--DISEASES)

*GRINEV, A. Ye.*  
BERDNIKOV, V.N., kand.med.nauk; GRINEV, A.Ye.

Conference on theory and practice for physicians of a sanatorium.  
Vop.kur., fizioter. i lech.fiz.kul't. 22 no.3:94-95 My-Je '57.  
(HEALTH RESORTS, WATERING PLACES, ETC.) (MIRA 11:1)



ACC NR: AP6035694 (A,N) SOURCE CODE: UR/0413/66/000/019/0034/0034

INVENTOR: Grinev, A. N.; Shvedov, V. I.; Altukhova, L. E.

ORG: none

TITLE: Preparation of 1-aryl-2-methyl-5-methoxyindoles. Class 12, No. 186487 [announced by All-Union Chemical and Pharmaceutical Scientific Research Institute im. S. Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy tovarnyye znaki, no. 19, 1966, 34

TOPIC TAGS: aryl<sup>radical,</sup>-2-methyl-5-methoxyindole, ~~aryl-2-methyl-5-methoxyindole~~ carboxylic acid

ABSTRACT: In the proposed method, 1-aryl-2-methyl-5-methoxyindoles are obtained by heating 1-aryl-2-methyl-5-methoxyindole-8-carboxylic acids at 210-245°C.

[WA-50; CBE No. 14]  
[PS]

SUB CODE: 07/ SUBM DATE 05Oct65

Card 1/1

UDC: 547.751.07

ACC NR: AP6023582

Table 1. 4-Alkylamine derivatives of 1-aryl-5-hydroxyindole hydrochlorides

| No.  | Ar                                                           | M. p., °C<br>(solvent<br>for crystal-<br>lization) | Formula                                                              | Found %        |              |              | Calculated     |              |              | Yield, % |
|------|--------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|----------------|--------------|--------------|----------------|--------------|--------------|----------|
|      |                                                              |                                                    |                                                                      | C              | H            | N            | C              | H            | N            |          |
| I    | C <sub>6</sub> H <sub>5</sub>                                | 184-185<br>(1:1:3)                                 | C <sub>21</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> ·HCl   | 64.45<br>64.77 | 6.59<br>6.52 | 7.37<br>7.41 | 64.85<br>64.85 | 6.48<br>6.48 | 7.20<br>7.20 | 71       |
| II   | <i>o</i> -CH <sub>3</sub> -C <sub>6</sub> H <sub>4</sub>     | 156-157<br>(From acetone)                          | C <sub>22</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub> ·HCl   | 65.54<br>65.41 | 6.74<br>6.86 | 6.93<br>7.12 | 65.55<br>65.55 | 6.75<br>6.75 | 6.95<br>6.95 | 68       |
| III  | <i>p</i> -CH <sub>3</sub> -C <sub>6</sub> H <sub>4</sub>     | 147.5-148<br>(1:1:10)                              | C <sub>22</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub> ·HCl   | 65.75<br>65.45 | 6.83<br>6.87 | 6.71<br>6.64 | 65.55<br>65.55 | 6.75<br>6.75 | 6.95<br>6.95 | 63       |
| IV   | <i>m</i> -Cl-C <sub>6</sub> H <sub>4</sub>                   | 189-190<br>(From acetone)                          | C <sub>21</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>3</sub> ·HCl | 59.93<br>59.57 | 5.89<br>5.85 | 6.74<br>6.65 | 59.57<br>59.57 | 5.71<br>5.71 | 6.62<br>6.62 | 66       |
| V    | <i>p</i> -Cl-C <sub>6</sub> H <sub>4</sub>                   | 192.5-193<br>(1:10:12)                             | C <sub>21</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>3</sub> ·HCl | 59.64<br>59.56 | 5.53<br>5.66 | 6.51<br>6.42 | 59.57<br>59.57 | 5.71<br>5.71 | 6.62<br>6.62 | 67       |
| VI   | <i>m</i> -CH <sub>3</sub> O-C <sub>6</sub> H <sub>4</sub>    | 177-178<br>(1:10:15)                               | C <sub>22</sub> H <sub>25</sub> N <sub>3</sub> O <sub>4</sub> ·HCl   | 62.94<br>63.28 | 6.34<br>6.34 | 6.55<br>6.74 | 63.07<br>63.07 | 6.49<br>6.49 | 6.68<br>6.68 | 74       |
| VII  | <i>p</i> -CH <sub>3</sub> O-C <sub>6</sub> H <sub>4</sub>    | 180-181<br>(1:1:6)                                 | C <sub>22</sub> H <sub>25</sub> N <sub>3</sub> O <sub>4</sub> ·HCl   | 63.32<br>63.13 | 6.46<br>6.63 | 6.38<br>6.59 | 63.07<br>63.07 | 6.49<br>6.49 | 6.68<br>6.68 | 70       |
| VIII | <i>p</i> -CH <sub>3</sub> CONH-C <sub>6</sub> H <sub>4</sub> | 203-204<br>(1:10:10)                               | C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub> ·HCl   | 61.91<br>61.70 | 6.38<br>6.14 | 9.40<br>9.45 | 61.94<br>61.94 | 6.18<br>6.18 | 9.42<br>9.42 | 77       |

Orig. art. has: 1 table.

[W.A. 50; CBE No. 10]

SUB CODE: 0706/SUBM DATE: 13Feb65/ ORIG REF: 006/ OTH REF: 001

Card 3/3

ACC NR: AP6023582

derivatives of 1-aryl-5-hydroxyindole hydrochlorides; reduction with Na in ethanol of the previously obtained oximes of 1-phenyl-2-methyl-3-acetyl-5-methoxyindole (IX) and 1-(n-anisyl)-2-methyl-3-acetyl-5-methoxyindole (X), yielded 1-phenyl-2-methyl-3-(1'-aminoethyl)-5-methoxyindole (XI) and 1-(n-anisyl)-2-methyl-3-(1'-aminoethyl)-5-methoxyindole (XII) which were isolated as hydrochlorides.

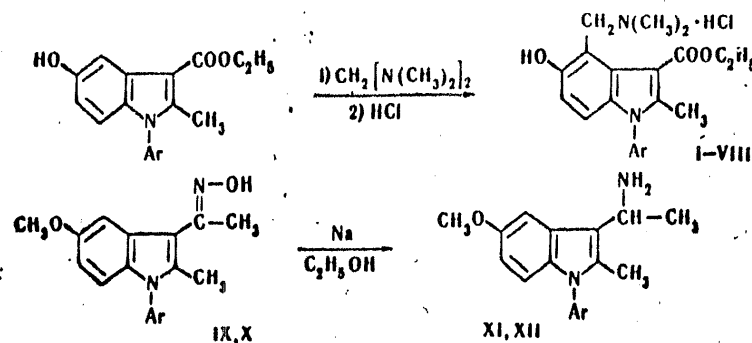


Table 1. 4-Alkylamine derivatives of 1-aryl-5-hydroxyindole hydrochlorides.

ACC NR: AP6023582

SOURCE CODE: UR/0409/66/000/003/0395/0397

AUTHOR: Grinev, A. N.; Shvedov, V. I.; Panisheva, Ye. K.

ORG: All-Union Chemical and Pharmaceutical Scientific Research Institute im. S. Ordzhonikidze, Moscow (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut)

TITLE: Synthesis of alkylamine derivatives of 1-aryl-5-hydroxyindole

SOURCE: Khimiya geterotsiklicheskikh soedineniy, no. 3, 1966, 395-397

TOPIC TAGS: arylhydroxyindole alkylamino derivative, phenylmethyl-aminoethylmethoxyindole, anisylmethylaminoethylmethoxyindole, nervous system drug, organic synthetic process, alkylamine, amine  
ABSTRACT:

Some of the previously obtained alkylamine derivatives of 1-alkyl-5-hydroxyindoles have found application as central nervous system stimulants. In this connection, synthesis of alkylamine derivatives of 1-aryl-5-hydroxyindoles was studied. Condensation of substituted 1-aryl-5-hydroxyindoles with bis(dimethylamino)methane in dry dioxane on a steam bath, followed by treatment with HCl, yielded eight previously unreported 4-alkylamine

Card 1/3

UDC: 547.755

SHVEDOV, V.I.; GRINEV, A.N.

Enamines. Part 3: Substituted aminothiophenes. Zhur. org. khim. 1  
no. 12:2228-2231 D '65 (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Submitted September 25, 1964.

GRIGOR, A.N.; SHEFDOV, V.I.; FANISHEVA, Ye.E.

Study of quinones. Part 40: Synthesis of 1-aryl-6-hydroxy-1,4-naphthoquinones.  
Zhur. org. khim. 1 no.11:2051-2055 1965. (Ukr. 1965)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordzhonikidze (VNIKhF). Submitted November 11,  
1964.

CHIRKO, A.N.; IL'YUCHENKO, T.Ye.; LEKARIN, V.I.; PRIZHIVALY, B.A.

Loss of the hypotensive activity of fibrovascular  
derivatives during irradiation of a tumor. Dokl. Akad.  
Nauk SSSR 20 no.9:55-58 '65.

1. Institut meditsinskoy radiatsii, Sverdlovsk, USSR.

ABUSNOV, M. F. and GUMOV, A. N.

Study of enamines. Part 2: Dihydroxyarylation of enamines of aliphatic aldehydes and cyclic ketones. Zhur. org. khim. 1 no.6:1125-1128 Je '65.  
(MIRA 18;7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsvticheskiy institut imeni Ordzhonikidze.



GRIMOV, A.N.; KOGOLVA, I.A.; NEVENTSEV, A.G.

Study of the chemical properties of chloroquin. Patent 1419  
no.28138-140 P '64. (Mik-17:12)

3. Institut po fiziko-khimiya i biologiya. U.S.S.R. Moscow.

GRINEV, A.N.; MEZENTSEV, A.A.; *Grinev, A.N.*

Antibiotics. Part 2: Oxidation products of the antibiotic  
heliomycin. Zhur.ob.khim. 33 no.10:3207-3209 O '63.  
(MLRA 16:11)  
1. Institut po izyskaniyu slozhi. antibiotikov ANU SSSR.

GRINEV, A.N.; VENEVTSEVA, N.K.

Mannich bases in the series of derivatives of 5-hydroxybenzofuran.  
Zhur.ob.khim. 33 no.3:820-824 Mr '63. (MIRA 1643)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.  
(Mannich bases)  
(Benzofuran)

GRINEV, A. N.; MEZENTSEV, A. S.; SIBIRYAKOVA, D. V.

On the structure of the antibiotic heliomycin. Zhur. ob.  
khim. 33 no.1:315 '63. (MIRA 16:1)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

(Antibiotics)

GRINEV, A. N.; MEZENTSEV, A. S.; SIBIRYAKOVA, D. V.

Antibiotics. Determination of the empirical formula and the  
synthesis of derivatives of heliomycin. Zhur. ob. khim. 33  
no.1:127-128 '63. (MIRA 16:1)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

(Antibiotics)

GRINEV, A.N.; SHVEDOV, V.I.

Quinones. Part 39: Mechanism of the condensation of p-quinones  
with imines of 1,3-diketones. Zhur.ob.khim. 32 no.8:2614-2616  
Ag '62. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonsova.  
(Benzoquinone imine)

GRINEV, A.N.; KUM<sup>o</sup> SHON<sup>o</sup> TSZYUN<sup>o</sup>; TERE<sup>o</sup>NT'YEV, A.P.

Synthesis of derivatives of naphthofuran and benzindole. Zhur ob.-  
khim. 32 no.6:1951-1957 Je '62. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Naphthofuran) (Benzindole)

GRINEV, A.N.; YEFIMAKOVA, V.N.; TERENT'YEV, A.P.

Quinones. Part 38: New condensation product of p-benzoquinone with  
N-methyl- $\beta$ -aminocrotonic ester. Zhur.ob.khim. 32 no.6:1948-1951  
Je '62. (MIR: 15:6)

1. Moskovskiy gosudatstvennyy universitet im. M.V.Lomonosova.  
(Benzoquinone) (Crotonic acid)



GRINEV, A.N.; MEZENTSEV, A.S.; SIBIRYAKOVA, D.V.

Study of the reaction of sodium hydroxymethanesulfonate with colimycin and monomycin. Antibiotiki 6 no.10:894-897 0 '61.

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.  
(ANTIBIOTICS) (METHANESULFONIC ACID)

GRINEV, A.N.; YERMAKOVA, V.N.; MEL'NIKOVA, I.A.; TERENT'YEV, A.F.;

Quinones. Part 37: Condensation of p-benzoquinone with anilides  
of  $\beta$ -aminocrotonic acids. Zhur.ob.khim. 31 no.7:2303-2306 J1  
'61. (MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(Benzoquinone) (Crotonic acid) (Anilides)

GRINEV, A.N.; SHVEDOV, V.I.; SUGROBOVA, I.P.

Quinones. Part 36: Condensation of acetylacetone imines with  
p-benzoquinone. Zhur.ob.khim. 31 no.7:2248-2303 J1 '61.

(MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.  
Lomonosova.

(Pentanedione) (Benzoquinone) (Imines)

GRINEV, A.N.; KHUN' SHCHI-TSZYUN'; TERENCEV, A.P.

Mannich bases in the series of derivatives of 5-hydroxynaphthofuran  
and 5-hydroxybenzindole. Zhur.ob.khim. 31 no.6:1902-1906 Je '61.  
(MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet.  
(Naphthofuran) (Benzindole) (Mannich bases)

GRINEV, A.N.; YERMAKOVA, V.N.; TERE<sup>NT</sup>YEV, A.P.

Synthesis of 2-alkyl-5-methoxygramine derivatives. Zhur.  
ob. khim. 31 no. 2:490-495 F '61. (MIRA 14:2)

1. Moskovskiy gosudarstvennyy universitet.  
(Inodle)

GRENEV, A.N.; KHUN' SHCHI-TSZYUN'; TEREENT'YEV, A.P.

Bromination and azo coupling reactions in the series of naphthofuran  
and benzindole derivatives. Zhur. ob. khim. 30 no.12:4030-4034 D '60.  
(MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet.  
(Naphthofuran) (Benzindole))

GRINEV, A.N.; KHUN' SHCHI-TSZYUN'; TERENT'YEV, A.P.

Synthesis of derivatives of furan, pyrrole, naphthofuran, and  
benzindole. Zhur. ob. khim. 30 no.11:3668-3672 N'60.  
(MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet.  
(Furan) (Pyrrole) (Naphthofuran) (Benzindole)

GRINEV, A.N.; FLORENT'YEV, V.L.; TEREENT'YEV, A.P.

Quinones. Part 35: Bromination of "acid complexes" of  
3-benzoquinone by the Chelintsev method. Zhur.ob.khim.  
30 no.7:2316-2317 J1 '60. (MIRA 13:?)

1, Moskovskiy gosudarstvennyy universitet.  
(Benzouinone)



GRINEV, A.N.; FLORENT'YEV, V.L.; SHVEDOV, V.I.; TERENT'YEV, A.P.

Quinones. Part 34: Condensation of p-quinones with acetyla-  
cetone imines. Zhur.ob.khim. 30 no.7:2311-2315 J1 '60.  
(MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet.  
(Pentanedione) (Benzoquinone)

GRINEV, A.N.; MEZENTSEV, A.S.; THERENT'YEV, A.P.

Quinones. Part 33: Condensation of aryl naphthoquinones  
with sodium enolates of acetoacetic and malonic esters and  
their analogs. Zhur.ob.khim. 30 no.7:2306-2311 J1 '60.  
(MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet.  
(Naphthoquinone) (Acetoacetic acid)  
(Malonic acid)

GRINOV, A.N.; ZAYTSEV, I.A.; VENEVTSEVA, N.K.; TERENT'YEV, A.P.

Quinones. Part 32: Synthesis of substituted 2,5-bis(amino)-1,4-benzoquinones and 2-amino-,4-naphthoquinones. Zhur.ob.khim. 30 no.6:1914-1918 Ja '60. (MIRA 13:6)

1. Moskovskiy gosudarstvennyy universitet.  
(Benzoquinone) (Naphthoquinone)

GRINEV, A.N.; VENEVTSEVA, N.K.; FRANCHUK, V.I.; FERENT'YEV, A.P.

Quinones. Part 31: Synthesis of tetrahydro-1,4-endomethy-  
leneanthraquinones. Zhur.ob.khim. 30 no.6:1911-1914  
Je '60. (MIRA 13:6)

1. Moskovskiy gosudarstvennyy universitet.  
(Anthraquinone)

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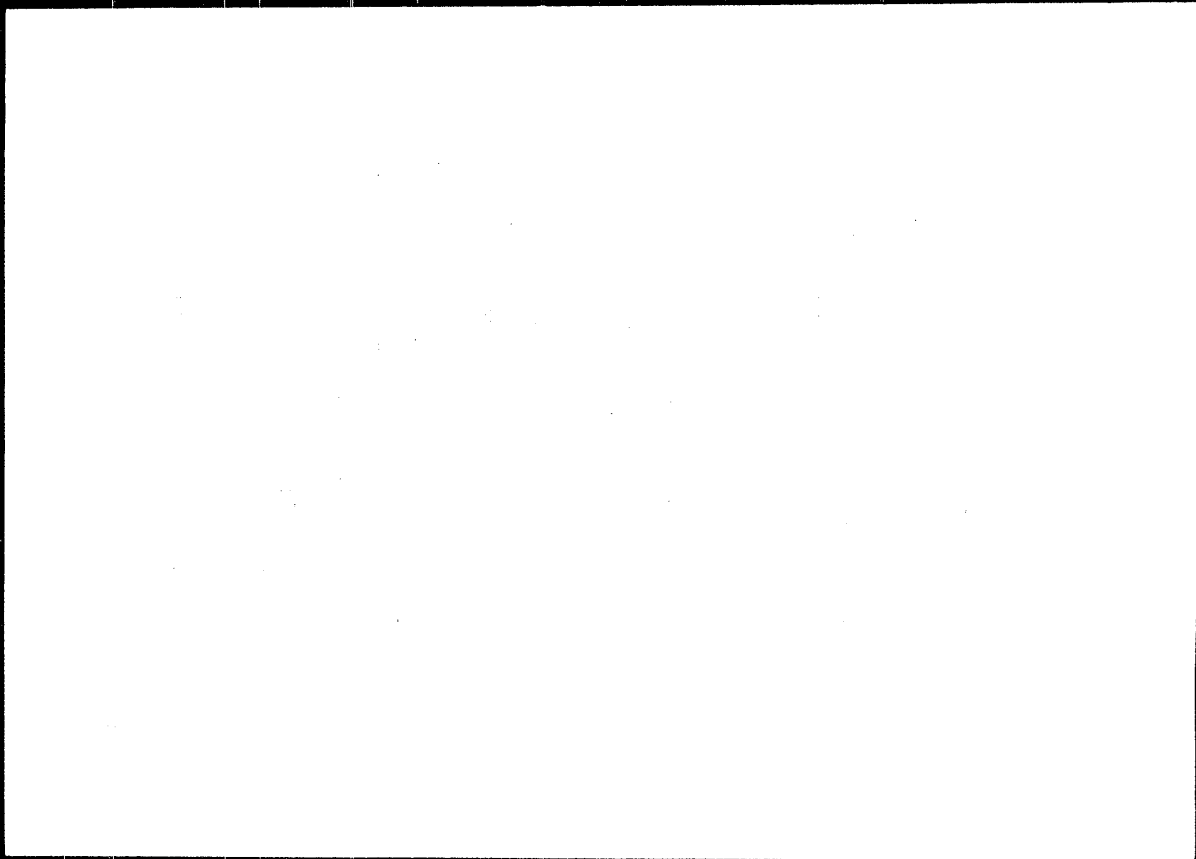
11/10 301/11-10-10/10

Quinoxalino-(2,3-c)-carbazole (IX, X)  
and Quinoxalino-(2,3-c)-benzimidazole Derivatives

| Starting material | Derivative prepared                                                 | Yield in %   | mp       |
|-------------------|---------------------------------------------------------------------|--------------|----------|
| I                 | 4-methyl-5-methoxyquinoxaline-1,8-dione (2,3-c)-carbazole (IX)      | quantitative | 104°     |
| II                | 4-methyl-5-methoxyquinoxaline-1,8-dione (2,3-c)-carbazole (X)       | 57           | 104-105° |
| III               | 4,5-dimethyl-5-methoxyquinoxaline-1,8-dione (2,3-c)-carbazole (XI)  | 33           | 104-105° |
| I                 | 4-methyl-5-methoxyquinoxaline-1,8-dione (2,3-c)-benzimidazole (XII) | 58           | 104-105° |

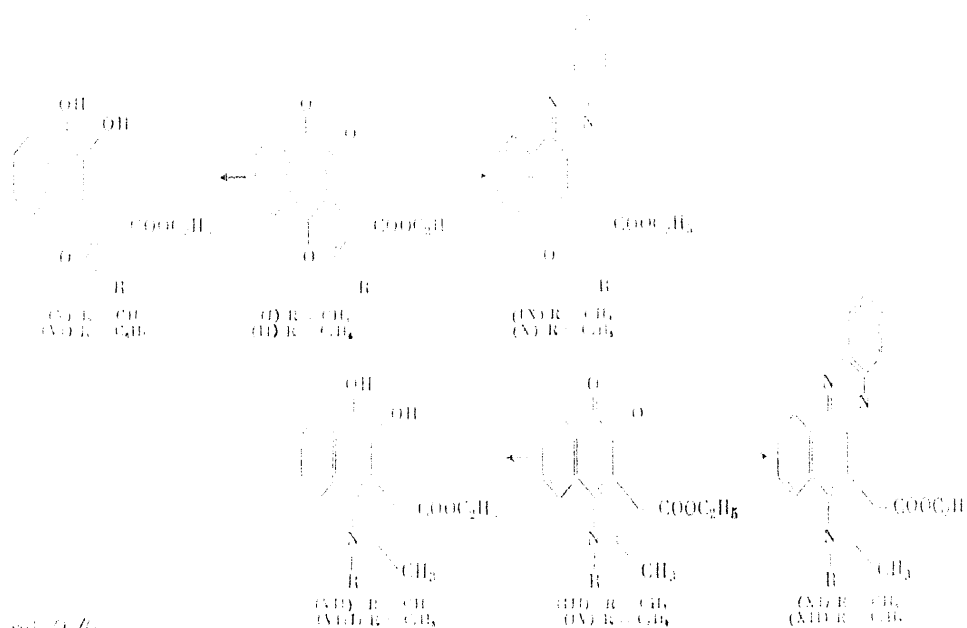
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ABSTRACT: Chromic acid reacts with 5-hydroxynaphthofuran and 5-hydroxybenzindole forming o-quinones of naphthofuran (I, II) and benzindole (III, IV) series. The obtained products are reduced with sodium bisulfite to corresponding 4,5-dihydroxyfurans (V, VI) and 4,5-dihydroxybenzindoles (VII, VIII). With o-phenylenediamine they form quinoxaline-(2,3e)-naphthofuran (IX, X) and quinoxaline (2,3e)-benzindole (XI, XII) derivatives.

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